

RAW SEQUENCE LISTING

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Application Serial Number: 10/540, 844
Source: PCT
Date Processed by STIC: 03/01/2006

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PCT

RAW SEQUENCE LISTING

DATE: 03/01/2006

PATENT APPLICATION: US/10/540,844

TIME: 13:59:26

Input Set : E:\ARS-110- Sequence listing.txt
 Output Set: N:\CRF4\03012006\J540844.raw

3 <110> APPLICANT: Applied Research Systems ARS Holding N.V.
 5 <120> TITLE OF INVENTION: NOVEL NOTCH-LIKE POLYPEPTIDES
 7 <130> FILE REFERENCE: 809
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/540,844
 C--> 9 <141> CURRENT FILING DATE: 2005-06-27
 9 <150> PRIOR APPLICATION NUMBER: US60/436,785
 10 <151> PRIOR FILING DATE: 2002-12-27
 12 <160> NUMBER OF SEQ ID NOS: 4
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 3711
 18 <212> TYPE: DNA
 19 <213> ORGANISM: homo sapiens
 21 <400> SEQUENCE: 1
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 24 cccgacccccc aggccctggc ctctgtcctg ctactgtgc tctggccccc tgcccttcc 120
 26 ctctggctg ggacggtgcc ttcagagccc cccagtgcct gtgcctcaga cccgtgcgt 180
 28 ccagggaccc agtgcacggc taccggaggt ggtggctata cctgtggcc catggagccc 240
 30 cggggctgtg ccacccagcc atgcccaccac ggcgcctctgt gtgtgccccca gggtccagat 300
 32 cccaaacggct tccgctgcta ctgcgtgccc ggtttccagg gcccacgcgt cgagctggac 360
 34 atcgatgagt gtgcattcccg gccgtgccac catggggcca cctgcgcaca cctggccgat 420
 36 cgctacgagt gccattgccc cttggctat gcaggcgtga cctgcgagat ggaggtggac 480
 38 gagtgccgcct cagcgcctcg cttgcacggg ggctcgtgcc tggacggcgt gggctccctc 540
 40 cgctgtgtgt ggcgcgcagg ctacgggggc acccggtgcc agctggaccc cgacgagtgc 600
 42 cagagccagc cgtgcgcaca tgggggcacg tgccacgacc tggtaacagg gttccgggtgc 660
 44 gactgcgcgg gcacccgcta cgagggcacg cactgcgagc gggaggtgct ggagtgcgc 720
 46 tcggcgccct gcgagcacaa cgcgtcctgc ctcgagggcc tcgggagctt cgcgtccctc 780
 48 tggccgcag gctacagcgg cgagctgtgc gaggtggacg aggacgagtg tgcacgcg 840
 50 ccctgcgcgc atggggcccg atgcctgcag cgctctgacc cggccctcta cgggggtgtc 900
 52 caggccgcct tccctggcgc cttcagcttc cgccatgctg cgggttccct gtccactgc 960
 54 cctcctggct ttgagggcc gacatgtgag gaagatgtgg atgaatgcct gtcggatccc 1020
 56 tgccctgcacg gggaaacctg cagtgcacact gtggcaggct atatctgcag gtgcgcag 1080
 58 acctggggtg ggcgcgactg ttctgtgcag ctcactggct gccaggccca cacctgccc 1140
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 76 tcctctgccc agctggggga cgcgacctt gcaggctgcc tccaggacgt gcgtgtggat 1680
 78 ggcacactcc tgctgcctga ggatctcggt gagaacgtcc tcctggctg tgagcgcga 1740

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82	ttccgttgcg	actgtgccc	gccccataga	ggtccacacgt	gctgtatga	gattcctgtct	1860										
84	gccacccccc	gtttggagg	cgccccca	acgt	tctgcctc	ttctgtccaa	1920										
86	ggtcccaacc	tcacagtgtc	ttcccttctc	cgcactcggg	agtccgctgg	cctgttgc	1980										
88	cagtttgc	atgactccgc	agctggccta	acagtattcc	ttagtgaggg	tcggatccgg	2040										
90	gctgaggcgc	cggcagtc	tgctgttagt	ctccctggc	gctggatga	tgggctccgt	2100										
92	cacctggta	tgctcagtt	cgggcctgac	cagctgcagg	acctggggca	gcacgtgcac	2160										
94	gtgggtgg	ggctcctgc	tgccgacagc	cagccctggg	gtggggcc	ccgaggctgc	2220										
96	ctccaggacc	tgcgactcga	tggctgccac	ctcccttct	ttcctctg	actgataac	2280										
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100	tccgaggaca	tgtcagtc	tgaccctgt	ttcaatgg	ggacttgct	cgtaacc	2400										
102	aatgacttcc	actgtacctg	ccctgcca	ttcacgggc	ctacgtgtc	ccagcagctg	2460										
104	ttgtgtcc	gccagccctg	tctccac	gccacgtgt	aggaggtccc	tatggctt	2520										
106	gtgtgtgtgg	cggaggccac	gttccgcgag	ggtccccc	ccgcgttc	cgggcacaac	2580										
108	gcgtcgtc	ggcgattgt	cgccggcctg	tcgtgg	tgcacgc	cgactccgag	2640										
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112	ggctcgctgg	cggggggcgt	g	cgccgtc	ccggcgtgt	gctgcccata	2760										
114	ccggggccgc	gcgtggccg	ttgtgcctg	cacccgtc	gtctggccat	ggagcgc	2820										
116	ggggccgc	cctcgccgt	gtgtgtgg	ctggatgg	ccgcaccc	gggtggcg	2880										
118	cgcggcc	ccagtgcac	gggccttc	caggccc	gtgtgtgc	cattctgt	2940										
120	gttgcgaa	actacccgc	tttggccgc	cacttc	cttggctgg	gacgcggcc	3000										
122	ccgatcctc	gttgcgcgg	cgcgcgc	tgtgc	ccgcgtgt	gcacgacgg	3060										
124	gcctgcgt	accttc	cgcc	ttgcgc	gcccgggt	gaaaggcc	3120										
126	cgctgcga	cccacgtc	ccc	tcgc	gcccgt	ccgcgtc	3180										
128	acgcaccc	acggccgtt	cgagtgc	tgccgc	gttgcggg	ccgcgtc	3240										
130	agg	ttgcct	ccccatccaa	ggagtgc	ctgatgt	ttgcagcc	3300										
132	tgtgagg	gtctccc	tgccaa	actgc	agggtct	ttgcagagg	3360										
134	tgtcagg	ccactctcc	tgt	gaagcc	aaccctgt	tgaatgggg	3420										
136	gcagctgg	gggtgtct	atgtat	atgc	atgc	tctccggca	3480										
138	gtggcga	gcctgc	ttcc	actgc	tggaggt	cgtaac	3540										
140	gcctgtgc	gcctc	cctc	ccgc	caggatct	ggcagcc	3600										
142	aagcgc	agtctg	gagg	cac	aggat	ttgggccc	3660										
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148	<211>	LENGTH:	1236														
149	<212>	TYPE:	PRT														
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155	1				5				10				15				
158	Arg	Pro	Gly	Thr	Pro	Asp	Pro	Gln	Ala	Leu	Ala	Ser	Val	Leu	Leu		
159									20				25			30	
162	Leu	Leu	Trp	Ala	Pro	Ala	Leu	Ser	Leu	Leu	Ala	Gly	Thr	Val	Pro	Ser	
163									35				40			45	
166	Glu	Pro	Pro	Ser	Ala	Cys	Ala	Ser	Asp	Pro	Cys	Ala	Pro	Gly	Thr	Glu	
167									50				55			60	
170	Cys	Gln	Ala	Thr	Glu	Ser	Gly	Gly	Tyr	Thr	Cys	Gly	Pro	Met	Glu	Pro	
171	65								70				75			80	
174	Arg	Gly	Cys	Ala	Thr	Gln	Pro	Cys	His	His	Gly	Ala	Leu	Cys	Val	Pro	

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175	85	90	95													
178	Gln	Gly	Pro	Asp	Pro	Asn	Gly	Phe	Arg	Cys	Tyr	Cys	Val	Pro	Gly	Phe
179			100			105								110		
182	Gln	Gly	Pro	Arg	Cys	Glu	Leu	Asp	Ile	Asp	Glu	Cys	Ala	Ser	Arg	Pro
183			115			120								125		
186	Cys	His	His	Gly	Ala	Thr	Cys	Arg	Asn	Leu	Ala	Asp	Arg	Tyr	Glu	Cys
187			130			135						140				
190	His	Cys	Pro	Leu	Gly	Tyr	Ala	Gly	Val	Thr	Cys	Glu	Met	Glu	Val	Asp
191	145			150						155				160		
194	Glu	Cys	Ala	Ser	Ala	Pro	Cys	Leu	His	Gly	Gly	Ser	Cys	Leu	Asp	Gly
195			165			170				170				175		
198	Val	Gly	Ser	Phe	Arg	Cys	Val	Cys	Ala	Pro	Gly	Tyr	Gly	Gly	Thr	Arg
199			180			185				185				190		
202	Cys	Gln	Leu	Asp	Leu	Asp	Glu	Cys	Gln	Ser	Gln	Pro	Cys	Ala	His	Gly
203		195			200			200				205				
206	Gly	Thr	Cys	His	Asp	Leu	Val	Asn	Gly	Phe	Arg	Cys	Asp	Cys	Ala	Gly
207		210			215			215				220				
210	Thr	Gly	Tyr	Glu	Gly	Thr	His	Cys	Glu	Arg	Glu	Val	Leu	Glu	Cys	Ala
211	225			230				230			235				240	
214	Ser	Ala	Pro	Cys	Glu	His	Asn	Ala	Ser	Cys	Leu	Glu	Gly	Leu	Gly	Ser
215		245			245			245			250				255	
218	Phe	Arg	Cys	Leu	Cys	Trp	Pro	Gly	Tyr	Ser	Gly	Glu	Leu	Cys	Glu	Val
219		260			260			265				270				
222	Asp	Glu	Asp	Glu	Cys	Ala	Ser	Ser	Pro	Cys	Gln	His	Gly	Gly	Arg	Cys
223		275			275			280			285					
226	Leu	Gln	Arg	Ser	Asp	Pro	Ala	Leu	Tyr	Gly	Gly	Val	Gln	Ala	Ala	Phe
227		290			290			295			300					
230	Pro	Gly	Ala	Phe	Ser	Phe	Arg	His	Ala	Ala	Gly	Phe	Leu	Cys	His	Cys
231	305			310			310			315				320		
234	Pro	Pro	Gly	Phe	Glu	Gly	Pro	Thr	Cys	Glu	Glu	Asp	Val	Asp	Glu	Cys
235		325			325			330				335				
238	Leu	Ser	Asp	Pro	Cys	Leu	His	Gly	Gly	Thr	Cys	Ser	Asp	Thr	Val	Ala
239		340			340			345			350					
242	Gly	Tyr	Ile	Cys	Arg	Cys	Pro	Glu	Thr	Trp	Gly	Gly	Arg	Asp	Cys	Ser
243		355			355			360			365					
246	Val	Gln	Leu	Thr	Gly	Cys	Gln	Gly	His	Thr	Cys	Pro	Leu	Ala	Ala	Thr
247		370			370			375			380					
250	Cys	Ile	Pro	Ile	Phe	Glu	Ser	Gly	Val	His	Ser	Tyr	Val	Cys	His	Cys
251	385			390			390			395				400		
254	Pro	Pro	Gly	Thr	His	Gly	Pro	Phe	Cys	Gly	Gln	Asn	Thr	Thr	Phe	Ser
255		405			405			410			410			415		
258	Val	Met	Ala	Gly	Ser	Pro	Ile	Gln	Ala	Ser	Val	Pro	Ala	Gly	Gly	Pro
259		420			420			425			430					
262	Leu	Gly	Leu	Ala	Leu	Arg	Phe	Arg	Thr	Thr	Leu	Pro	Ala	Gly	Thr	Leu
263		435			435			440			445					
266	Ala	Thr	Arg	Asn	Asp	Thr	Lys	Glu	Ser	Leu	Glu	Leu	Ala	Leu	Val	Ala
267		450			450			455			460					
270	Ala	Thr	Leu	Gln	Ala	Thr	Leu	Trp	Ser	Tyr	Ser	Thr	Thr	Val	Leu	Val
271	465				465			470			475				480	

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274 Leu Arg Leu Pro Asp Leu Ala Leu Asn Asp Gly His Trp His Gln Val
275 485 490 495
278 Glu Val Val Leu His Leu Ala Thr Leu Glu Leu Arg Leu Trp His Glu
279 500 505 510
282 Gly Cys Pro Ala Arg Leu Cys Val Ala Ser Gly Pro Val Ala Leu Ala
283 515 520 525
286 Ser Thr Ala Ser Ala Thr Pro Leu Pro Ala Gly Ile Ser Ser Ala Gln
287 530 535 540
290 Leu Gly Asp Ala Thr Phe Ala Gly Cys Leu Gln Asp Val Arg Val Asp
291 545 550 555 560
294 Gly His Leu Leu Leu Pro Glu Asp Leu Gly Glu Asn Val Leu Leu Gly
295 565 570 575
298 Cys Glu Arg Arg Glu Gln Cys Arg Pro Leu Pro Cys Val His Gly Gly
299 580 585 590
302 Ser Cys Val Asp Leu Trp Thr His Phe Arg Cys Asp Cys Ala Arg Pro
303 595 600 605
306 His Arg Gly Pro Thr Cys Ala Asp Glu Ile Pro Ala Ala Thr Phe Gly
307 610 615 620
310 Leu Gly Gly Ala Pro Ser Ser Ala Ser Phe Leu Leu Glu Leu Pro
311 625 630 635 640
314 Gly Pro Asn Leu Thr Val Ser Phe Leu Leu Arg Thr Arg Glu Ser Ala
315 645 650 655
318 Gly Leu Leu Leu Gln Phe Ala Asn Asp Ser Ala Ala Gly Leu Thr Val
319 660 665 670
322 Phe Leu Ser Glu Gly Arg Ile Arg Ala Glu Ala Pro Gly Ser Pro Ala
323 675 680 685
326 Val Val Leu Pro Gly Arg Trp Asp Asp Gly Leu Arg His Leu Val Met
327 690 695 700
330 Leu Ser Phe Gly Pro Asp Gln Leu Gln Asp Leu Gly Gln His Val His
331 705 710 715 720
334 Val Gly Gly Arg Leu Leu Ala Ala Asp Ser Gln Pro Trp Gly Gly Pro
335 725 730 735
338 Phe Arg Gly Cys Leu Gln Asp Leu Arg Leu Asp Gly Cys His Leu Pro
339 740 745 750
342 Phe Phe Pro Leu Pro Leu Asp Asn Ser Ser Gln Pro Ser Glu Leu Gly
343 755 760 765
346 Gly Arg Gln Ser Trp Asn Leu Thr Ala Gly Cys Val Ser Glu Asp Met
347 770 775 780
350 Cys Ser Pro Asp Pro Cys Phe Asn Gly Gly Thr Cys Leu Val Thr Trp
351 785 790 795 800
354 Asn Asp Phe His Cys Thr Cys Pro Ala Asn Phe Thr Gly Pro Thr Cys
355 805 810 815
358 Ala Gln Gln Leu Trp Cys Pro Gly Gln Pro Cys Leu Pro Pro Ala Thr
359 820 825 830
362 Cys Glu Glu Val Pro Asp Gly Phe Val Cys Val Ala Glu Ala Thr Phe
363 835 840 845
366 Arg Glu Gly Pro Pro Ala Ala Phe Ser Gly His Asn Ala Ser Ser Gly
367 850 855 860
370 Arg Leu Leu Gly Leu Ser Leu Ala Phe Arg Thr Arg Asp Ser Glu

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374	Ala Trp Leu Leu Arg Ala Ala Ala Gly Ala Leu Glu Gly Val Trp Leu			
375	885	890	895	
378	Ala Val Arg Asn Gly Ser Leu Ala Gly Gly Val Arg Gly Gly His Gly			
379	900	905	910	
382	Leu Pro Gly Ala Val Leu Pro Ile Pro Gly Pro Arg Val Ala Asp Gly			
383	915	920	925	
386	Ala Trp His Arg Val Arg Leu Ala Met Glu Arg Pro Ala Ala Ala Thr			
387	930	935	940	
390	Ser Arg Trp Leu Leu Trp Leu Asp Gly Ala Ala Thr Pro Val Ala Leu			
391	945	950	955	960
394	Arg Gly Leu Ala Ser Asp Leu Gly Phe Leu Gln Gly Pro Gly Ala Val			
395	965	970	975	
398	Arg Ile Leu Leu Ala Glu Asn Phe Thr Gly Cys Leu Gly Arg His Phe			
399	980	985	990	
402	Ala Ser Trp Pro Gly Thr Pro Ala Pro Ile Leu Gly Cys Arg Gly Ala			
403	995	1000	1005	
406	Pro Val Cys Ala Pro Ser Pro Cys Leu His Asp Gly Ala Cys Arg			
407	1010	1015	1020	
410	Asp Leu Phe Asp Ala Phe Ala Cys Ala Cys Gly Pro Gly Trp Glu			
411	1025	1030	1035	
414	Gly Pro Arg Cys Glu Ala His Val Asp Pro Cys His Ser Ala Pro			
415	1040	1045	1050	
418	Cys Ala Arg Gly Arg Cys His Thr His Pro Asp Gly Arg Phe Glu			
419	1055	1060	1065	
422	Cys Arg Cys Pro Pro Gly Phe Gly Gly Pro Arg Cys Arg Leu Pro			
423	1070	1075	1080	
426	Val Pro Ser Lys Glu Cys Ser Leu Asn Val Thr Cys Leu Asp Gly			
427	1085	1090	1095	
430	Ser Pro Cys Glu Gly Ser Pro Ala Ala Asn Cys Ser Cys Leu			
431	1100	1105	1110	
434	Glu Gly Leu Ala Gly Gln Arg Cys Gln Val Pro Thr Leu Pro Cys			
435	1115	1120	1125	
438	Glu Ala Asn Pro Cys Leu Asn Gly Gly Thr Cys Arg Ala Ala Gly			
439	1130	1135	1140	
442	Gly Val Ser Glu Cys Ile Cys Asn Ala Arg Phe Ser Gly Gln Phe			
443	1145	1150	1155	
446	Cys Glu Val Ala Lys Gly Leu Pro Leu Pro Leu Pro Phe Pro Leu			
447	1160	1165	1170	
450	Leu Glu Val Ala Val Pro Ala Ala Cys Ala Cys Leu Leu Leu Leu			
451	1175	1180	1185	
454	Leu Leu Gly Leu Leu Ser Gly Ile Leu Ala Ala Arg Lys Arg Arg			
455	1190	1195	1200	
458	Gln Ser Glu Gly Thr Tyr Ser Pro Ser Gln Gln Glu Val Ala Gly			
459	1205	1210	1215	
462	Ala Arg Leu Glu Met Asp Ser Val Leu Lys Val Pro Pro Glu Glu			
463	1220	1225	1230	
466	Arg Leu Ile			
467	1235			

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date